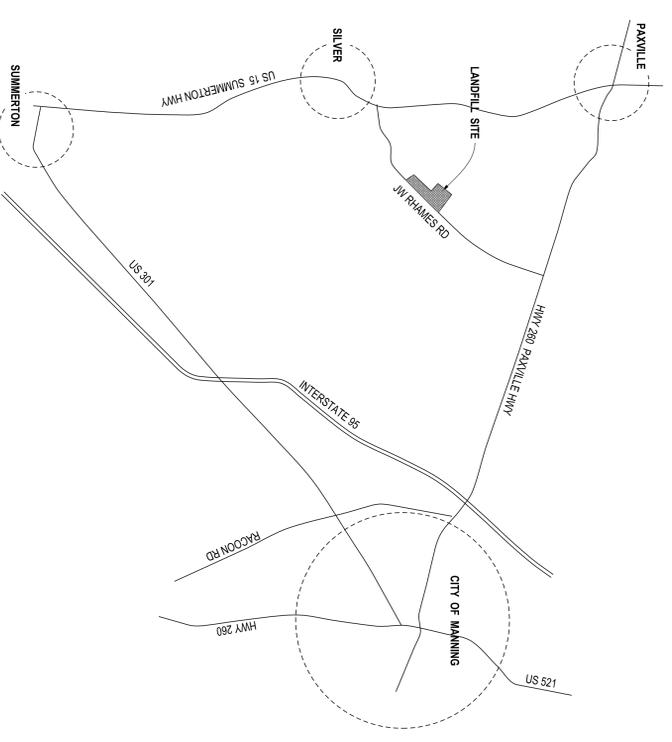


# CLASS II LANDFILL HORIZONTAL and VERTICAL EXPANSION PHASE I CONSTRUCTION PLANS

LOCATED WEST OF  
 MANNING, SOUTH CAROLINA

PROJECT FOR

## COUNTY OF CLARENDON MANNING, SOUTH CAROLINA



**LOCATION MAP**

**DAVIS** Engineering  
**FLOYD** Architecture  
 Environmental & Laboratory Services  
 GREENWOOD • CHARLESTON • COLUMBIA • GREENVILLE  
 FLORENCE • HICKORY

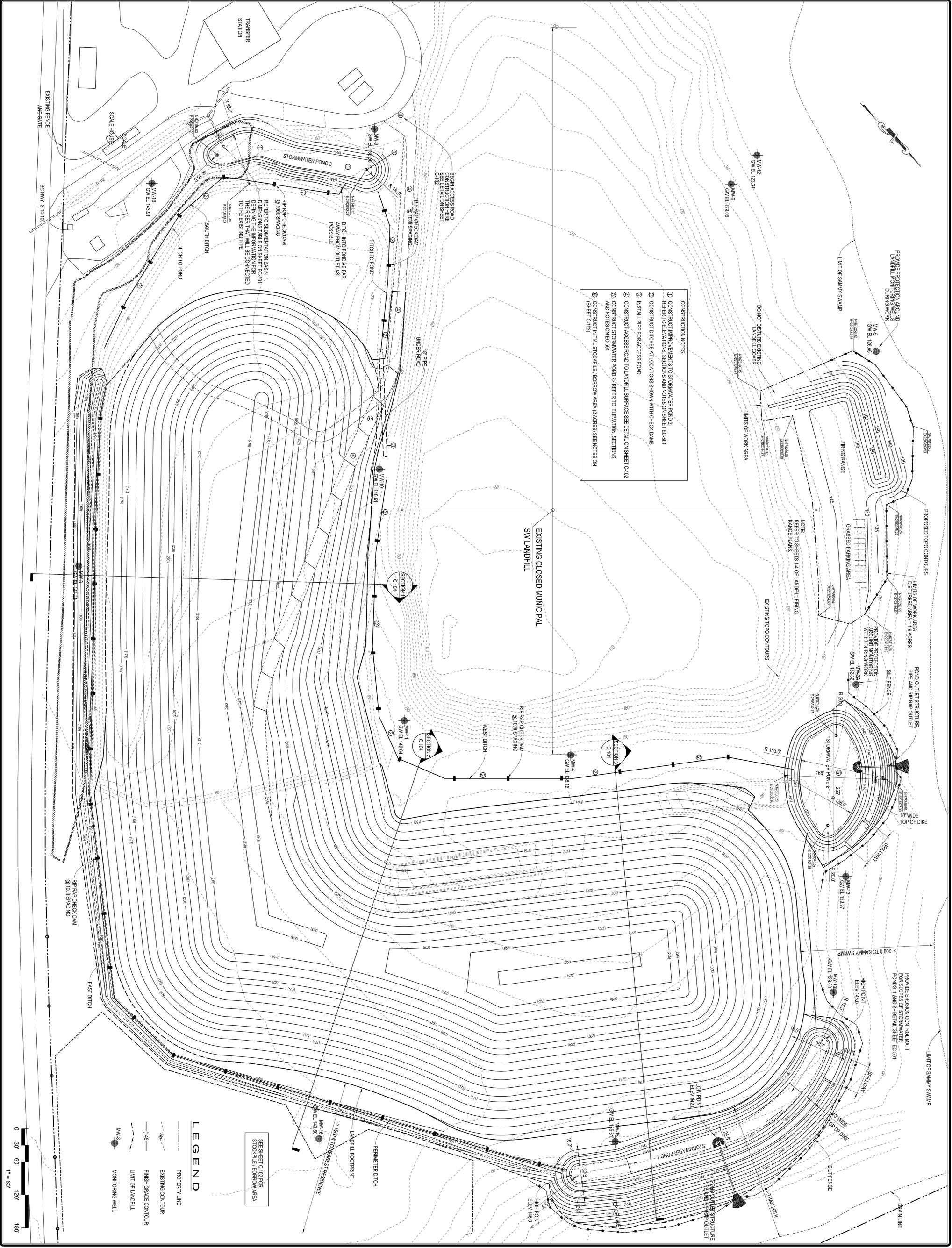
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72 HOURS BEFORE DIGGING  
 IN SOUTH CAROLINA CALL  
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 SOUTH CAROLINA 811

DRAWING NO.	SHEET TITLE	SHEET
CS 1	COVER SHEET	1 OF 6
C-101	LANDFILL GRADING PLAN	2 OF 6
C102	LANDFILL STOCKPILE / BORROW AREA	3 OF 6
C 103	LANDFILL SECTIONS AND DETAILS	4 OF 6
EC 501	EROSION CONTROL NOTES AND DETAILS	5 OF 6
EC502	EROSION CONTROL DETAILS	6 OF 6

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NO.	REVISION	DATE
1	REVISED PER OHC REVIEW COMMENTS	24 JUN 13
2	REVISED PER OHC REVIEW COMMENTS	30 DEC 13
3	REVISED PER OHC REVIEW COMMENTS	30 JUN 14

DESIGNED	CHECKED	JOB NO.
JORDAN	JORDAN	12624-01
DRAWN	APPROVED	DATE
BLACKMON	JORDAN	JUNE 2013

**LANDFILL GRADING PLAN**

CLARENDON COUNTY  
 MANNING, SOUTH CAROLINA

OWNER

**CLASS II LANDFILL**  
 HORIZONTAL AND VERTICAL EXPANSION

PROJECT TITLE

**DAVIS & FLOYD** Engineering  
 Architecture  
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 864-229-5211

STATE OF SOUTH CAROLINA  
 PROFESSIONAL ENGINEER  
 No. 14589  
 5-29-15  
 THOMAS G. JORDAN

STATE OF SOUTH CAROLINA  
 PROFESSIONAL ARCHITECT  
 No. C00538  
 DAVIS & FLOYD, INC.

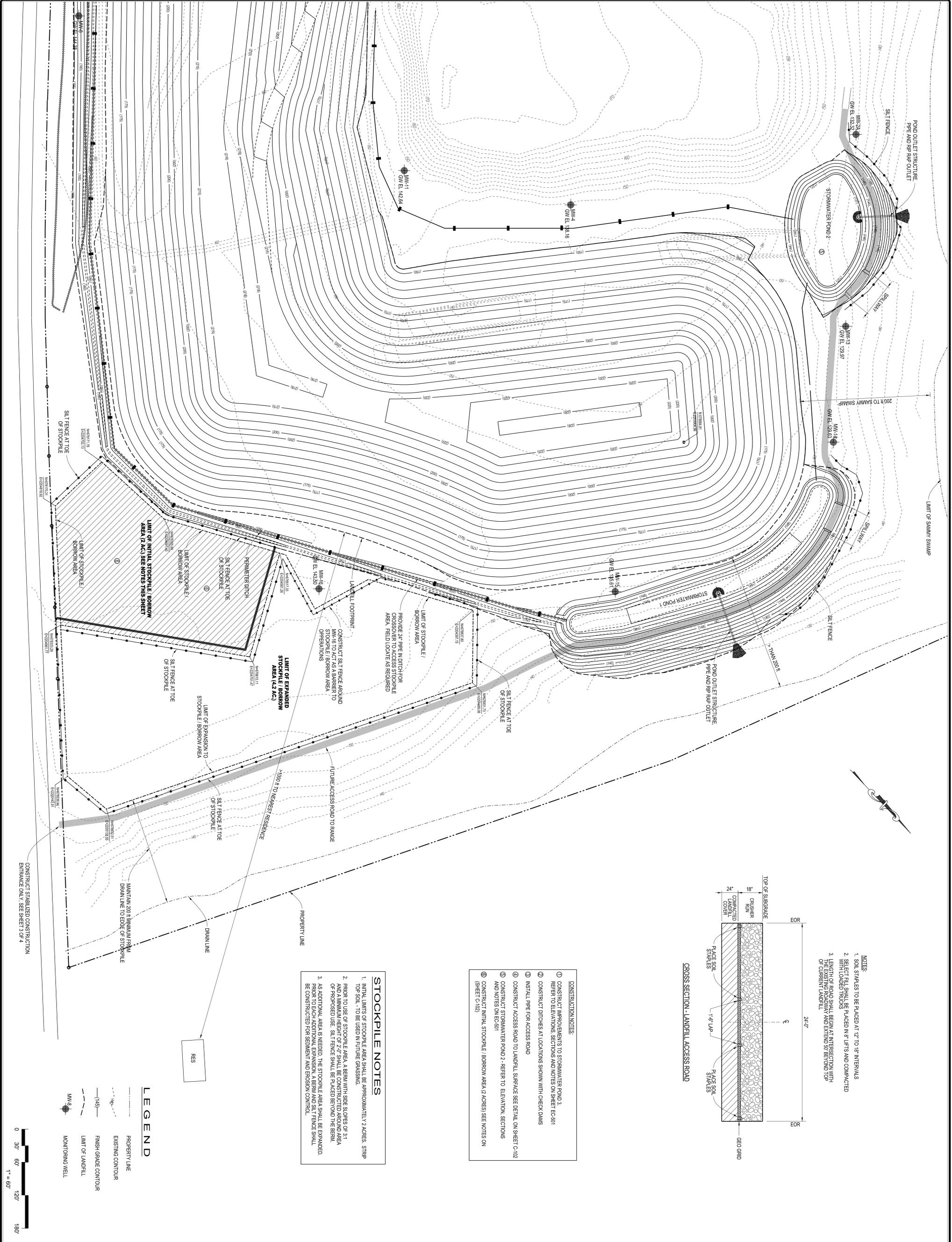
CLARENDON COUNTY  
 MANNING, SOUTH CAROLINA

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 HORIZONTAL AND VERTICAL EXPANSION

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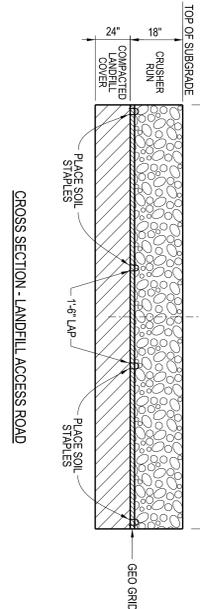


**STOCKPILE NOTES**

- INITIAL LIMITS OF STOCKPILE AREA SHALL BE APPROXIMATELY 2 ACRES. STRIP TOP SOIL - TO BE USED IN FUTURE GRASSING.
- PRIOR TO USE OF STOCKPILE AREA, A BERM WITH SIDE SLOPES OF 3:1 AND A MINIMUM HEIGHT OF 2'-0" SHALL BE CONSTRUCTED AROUND AREA OF PROPOSED USE. SILT FENCE SHALL BE PLACED BEYOND THE BERM.
- AS ADDITIONAL AREA IS NEEDED, THE STOCKPILE AREA SHALL BE EXPANDED. PRIOR TO EACH ADDITIONAL EXPANSION, A BERM AND SILT FENCE SHALL BE CONSTRUCTED FOR SEDIMENT AND EROSION CONTROL.

**CONSTRUCTION NOTES**

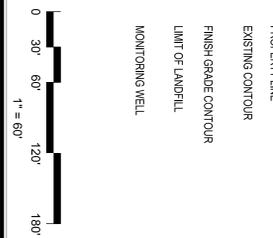
- CONSTRUCT IMPROVEMENTS TO STORMWATER POND 3. REFER TO ELEVATIONS, SECTIONS AND NOTES ON SHEET EC-501
- CONSTRUCT DITCHES AT LOCATIONS SHOWN WITH CHECK DAMS
- INSTALL PIPE FOR ACCESS ROAD
- CONSTRUCT ACCESS ROAD TO LANDFILL SURFACE. SEE DETAIL ON SHEET C-102
- CONSTRUCT STORMWATER POND 2. REFER TO ELEVATION, SECTIONS AND NOTES ON EC-501
- CONSTRUCT INITIAL STOCKPILE BORROW AREA (2 ACRES). SEE NOTES ON SHEET C-102



- NOTES:**
- SOIL STRAPLES TO BE PLACED AT 12" TO 18" INTERVALS
  - SELECT FILL SHALL BE PLACED IN 8" LIFTS AND COMPACTED WITH LOADS/ ROLLERS
  - LENGTH OF ROAD SHALL BEGIN AT INTERSECTION WITH OF CURRENT LANDFILL AND EXTEND 50' BEYOND TOP

**LEGEND**

- PROPERTY LINE
- EXISTING CONTOUR
- FINISH GRADE CONTOUR
- LIMIT OF LANDFILL
- MONITORING WELL



NO.	REVISED	PER	DATE
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2	REVISED PER DHC REVIEW COMMENTS	TGJ	19 DEC 13

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LANDFILL STOCKPILE / BORROW AREA

CIVIL

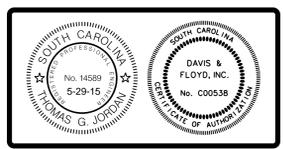
CLARENDON COUNTY  
 MANNING, SOUTH CAROLINA  
 OWNER

CLASS II LANDFILL  
 HORIZONTAL AND VERTICAL EXPANSION  
 PROJECT TITLE

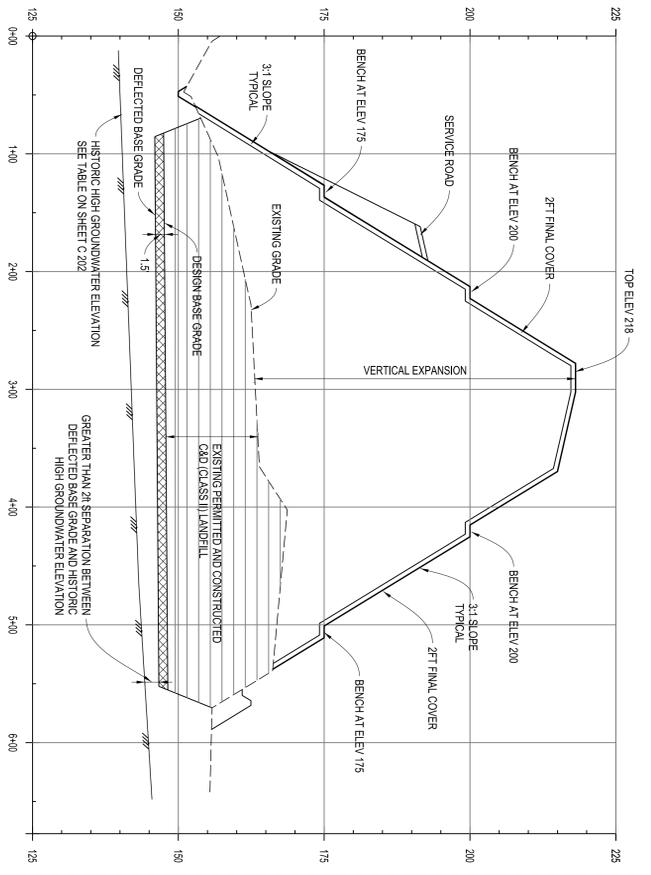
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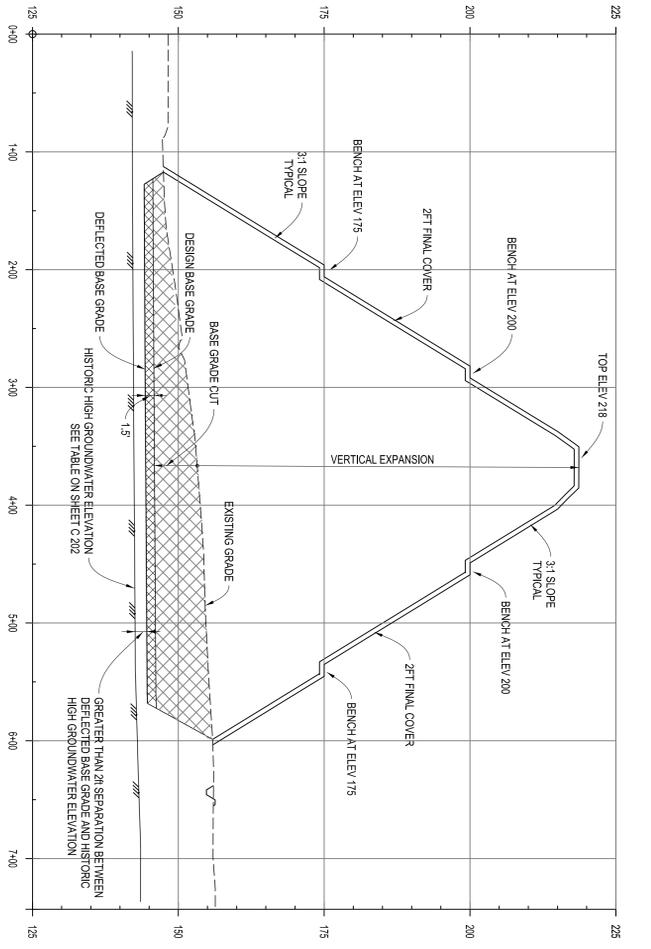
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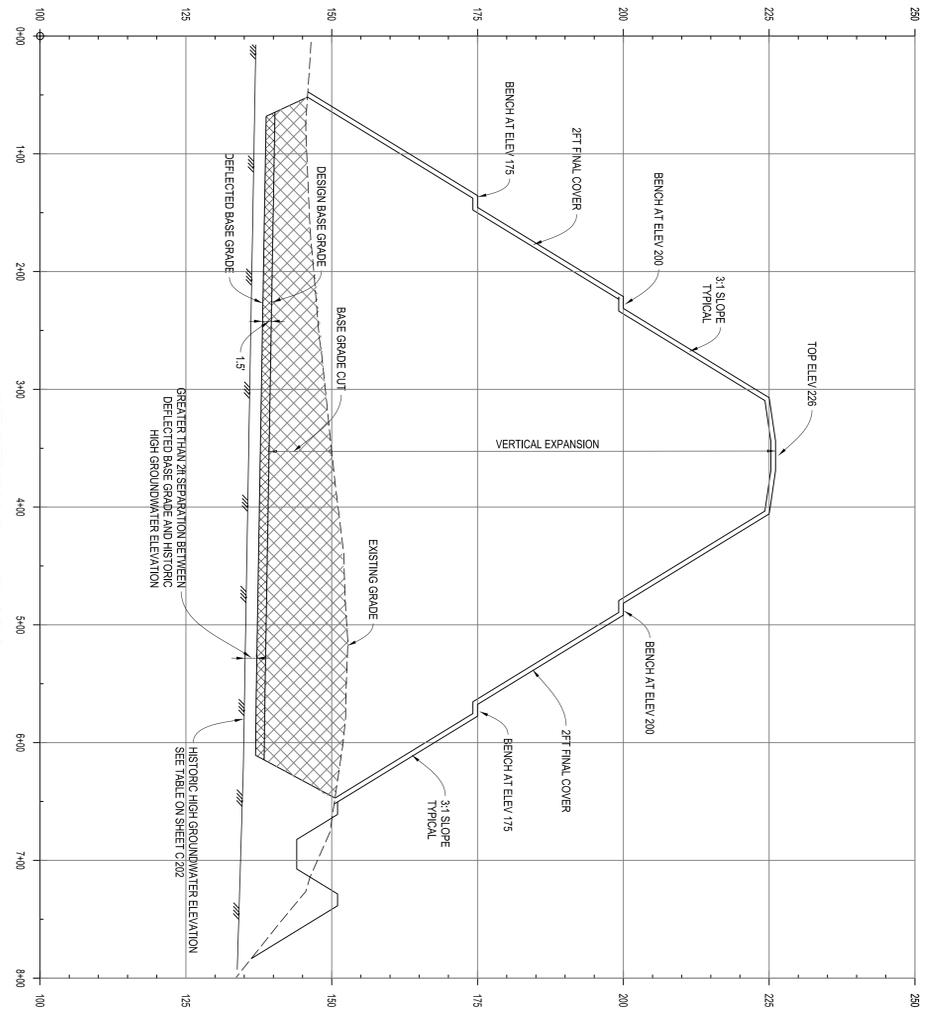
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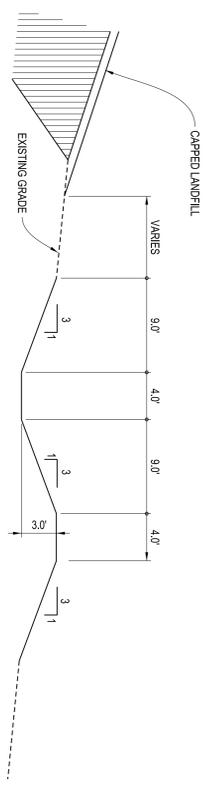
**SECTION 1 - C 104**



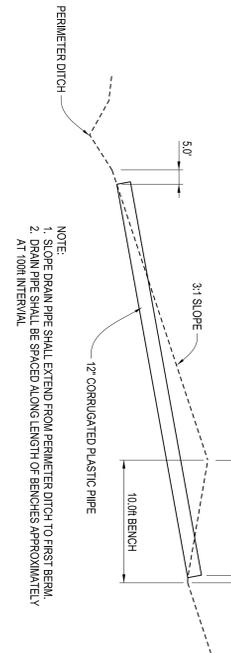
**SECTION 2 - C 104**



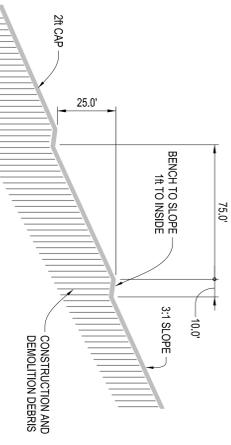
**SECTION 3 - C 104**



**DETAIL - PERIMETER DITCH**  
NO SCALE



**DETAIL - SLOPE DRAIN**  
NO SCALE



**DETAIL - FINAL GRADING AND CAP**  
NO SCALE

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3		
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5		

**C 103**

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JORDAN	JORDAN	12624-01
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**LANDFILL SECTIONS AND DETAILS**

CIVIL

CLARENDON COUNTY  
MANNING, SOUTH CAROLINA

OWNER

CLASS II LANDFILL  
HORIZONTAL AND VERTICAL EXPANSION

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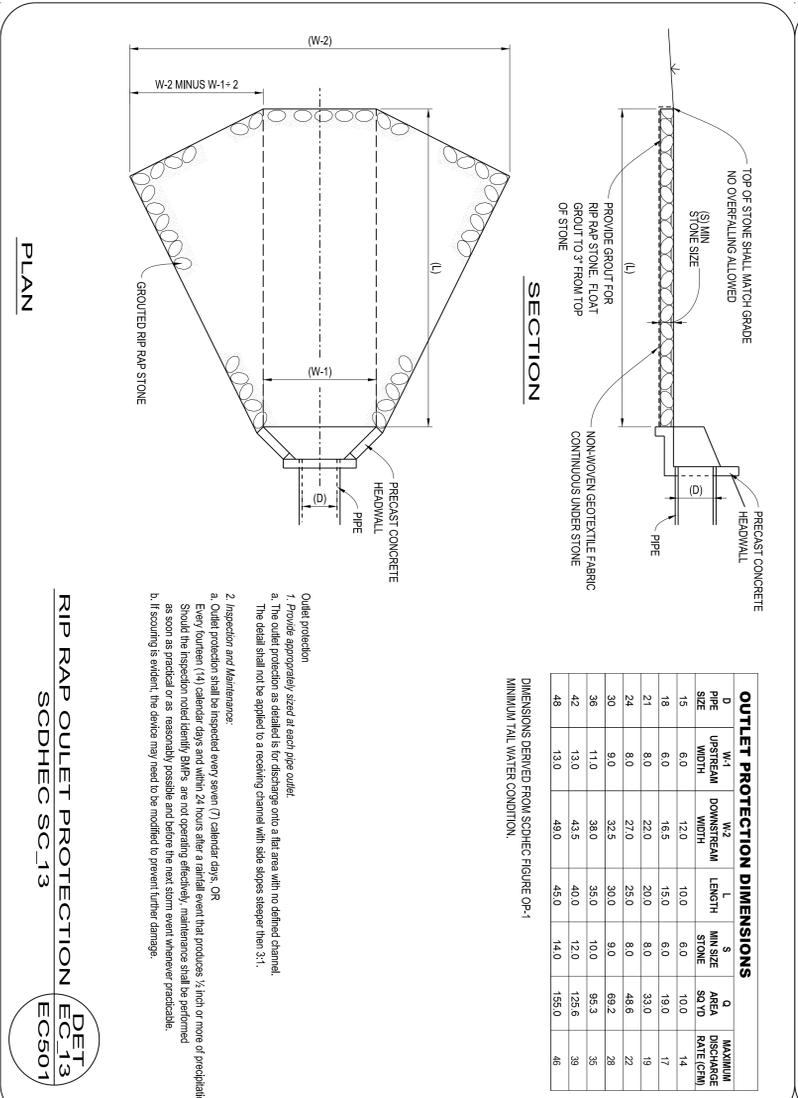
No. 14589  
5-29-15

THOMAS G. JORDAN

SOUTH CAROLINA PROFESSIONAL ARCHITECTURE

DAVIS & FLOYD, INC.  
No. C00538

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**OUTLET PROTECTION DIMENSIONS**

D	W1	W2	L	L-1	S	Q	MAXIMUM DISCHARGE RATE (GPM)
15	6.0	12.0	10.0	8.0	10.0	14	14
18	6.0	16.5	15.0	6.0	19.0	17	17
21	8.0	22.0	20.0	8.0	33.0	19	19
24	8.0	27.0	25.0	8.0	48.6	22	22
30	9.0	32.5	30.0	9.0	69.2	28	28
36	11.0	38.0	35.0	10.0	99.3	35	35
42	13.0	43.5	40.0	12.0	129.9	39	39
48	13.0	49.0	45.0	14.0	185.0	46	46

DIMENSIONS DERIVED FROM SCDHEC FIGURE OP-1  
 MINIMUM PAL WATER CONDITION.

**PLAN**

**SECTION**

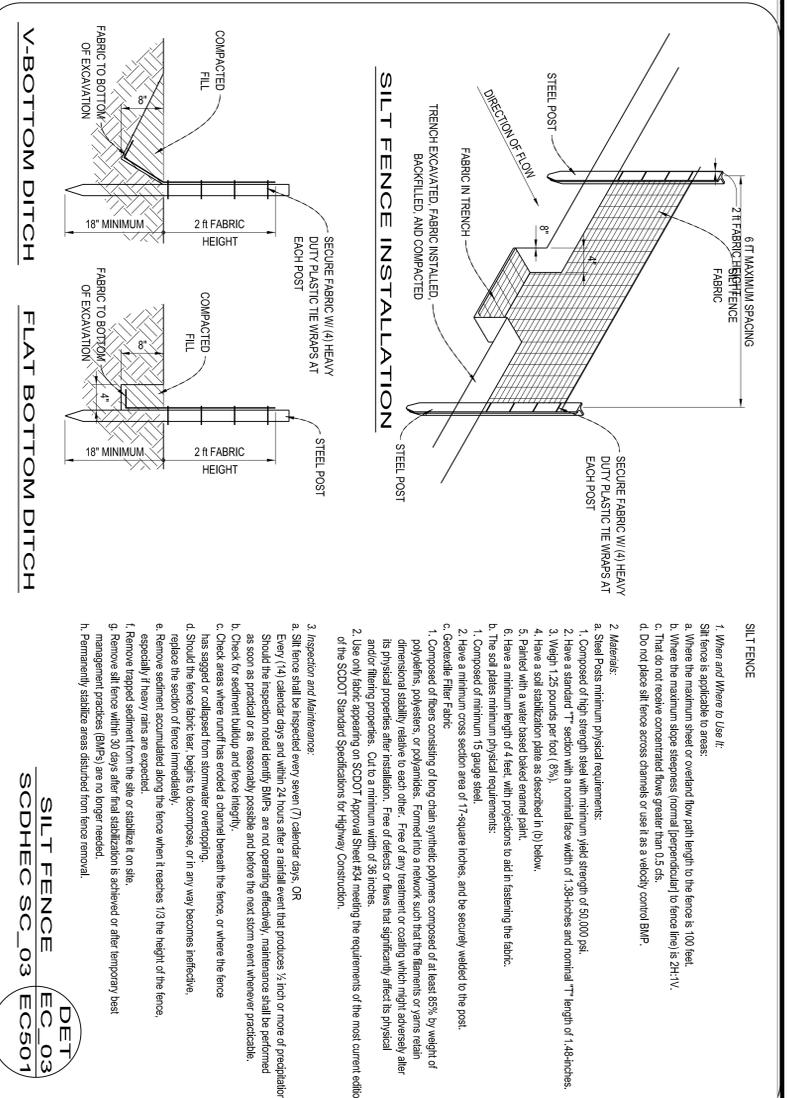
**RIP RAP OUTLET PROTECTION**  
 SCDHEC SC\_13  
 DET EC 01  
 EC501

**Outlet protection**

- Provide rip rap outlet.
- Provide outlet protection as detailed for discharge onto a flat area with no defined channel.
- The outlet shall not be applied to a receiving channel with side slopes steeper than 3:1.

**Inspector and Maintenance:**

- Outlet protection shall be inspected every seven (7) calendar days, OR Every fourteen (14) calendar days and within 24 hours after a rainfall event that produces 1/4 inch or more of precipitation. Should the inspection noted identify BMPs are not operating effectively, maintenance shall be performed as soon as practical or as reasonably possible and before the next storm event whenever practicable.
- If scouring is evident, the device may need to be modified to prevent further damage.



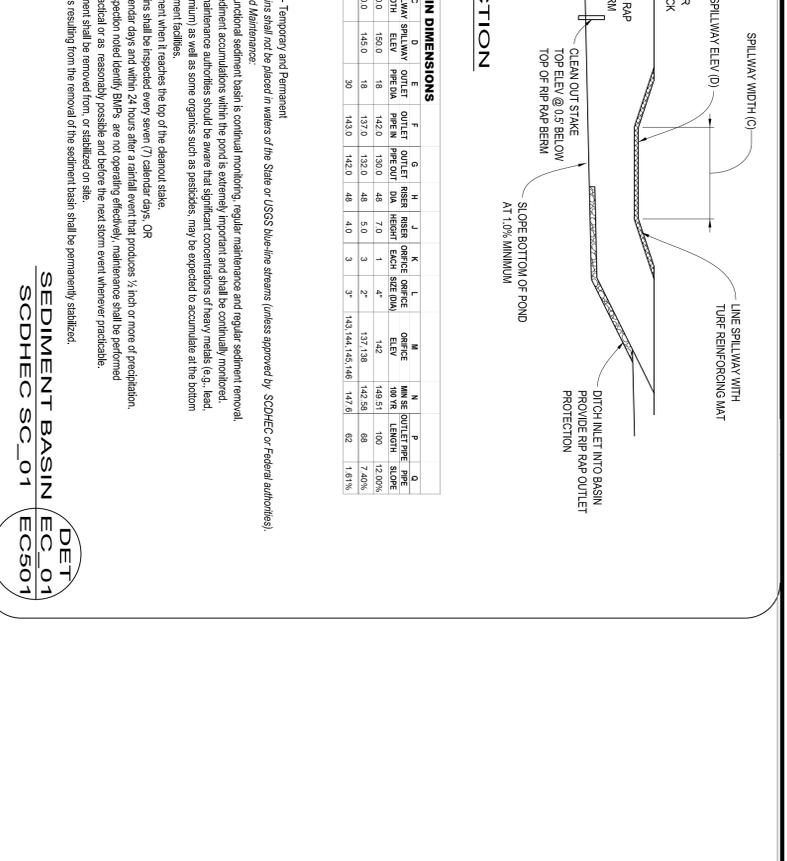
**SILT FENCE INSTALLATION**

**V-BOTTOM DITCH**

**FLAT BOTTOM DITCH**

**SILT FENCE**

- When and Where to Use It: Silt fence is applicable to areas:
  - Where the maximum sheet or overland flow path length to the fence is 100 feet.
  - Where the maximum slope steepness (normal perpendicular to fence line) is 2H:1V.
  - That do not receive concentrated flows greater than 0.3 cfs.
  - Do not place silt fence across channels or use it as a velocity control BMP.
- Materials:
  - Silt fence: minimum physical requirements:
    - Composed of high strength steel with minimum yield strength of 50,000 psi.
    - Have a standard "T" section with a nominal flange width of 1.38-inches and nominal "T" height of 1.48-inches.
    - Weight 1.25 pounds per foot (1.8%).
    - Have a sand stabilization plate as described in (b) below.
    - Painted with a water based baked enamel paint.
    - Have a minimum length of 4 feet with projections to aid in assembling the fabric.
  - Composed of minimum 15 gauge steel.
  - Have a minimum cross section area of 17 square inches, and be securely welded to the post.
  - Geotextile Filter Fabric:
    - Composed of fibers consisting of long chain synthetic polymers composed of at least 85% by weight of polyethylene, polyesters, or polyamides, formed into a network such that the filaments or yarns retain dimensional stability relative to each other.
    - Free of any treatment or coating which might adversely affect its physical properties after installation.
    - Free of defects or flaws that significantly affect its physical and/or filtering properties.
    - Cut to a minimum width of 36 inches.
    - Use only fabric approved on SCOT Approval Sheet #24 meeting the requirements of the most current edition of the SCOT Standard Specifications for Geotextile Construction.
- Inspector and Maintenance:
  - Silt fence shall be inspected every seven (7) calendar days, OR Every (14) calendar days and within 24 hours after a rainfall event that produces 1/4 inch or more of precipitation. Should the inspection noted identify BMPs are not operating effectively, maintenance shall be performed as soon as practical or as reasonably possible and before the next storm event whenever practicable.
  - Check for sediment buildup and loose height.
  - Check areas where runoff has eroded a channel beneath the fence, or where the fence has sagged or collapsed from stemwater overtopping.
  - Should the fence fabric tear, fringes to decompose, or in any way becomes ineffective, replace the section of fence immediately.
  - Remove sediment accumulated along the fence when it reaches 1/3 the height of the fence, especially if heavy rains are expected.
  - Remove trapped sediment from the site or stabilize it on site.
  - Remove silt fence within 30 days after final stabilization is achieved or after temporary best management practices (BMPs) are no longer needed.
  - Permanently stabilize areas subjected from fence removal.



**TRASH RACK**

**BASIN SECTION**

**RISER DETAIL**

**SEDIMENT BASIN DIMENSIONS**

ROW	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	151.0	145.0	140.0	135.0	130.0	125.0	120.0	115.0	110.0	105.0	100.0	95.0	90.0	85.0	80.0
2	148.0	142.0	137.0	132.0	127.0	122.0	117.0	112.0	107.0	102.0	97.0	92.0	87.0	82.0	77.0
3	148.0	143.0	138.0	133.0	128.0	123.0	118.0	113.0	108.0	103.0	98.0	93.0	88.0	83.0	78.0

**STORM WATER MANAGEMENT POND MAINTENANCE PLAN**

THE OWNER SHALL MAINTAIN COMPLETE UP TO DATE "AS-BUILT" PLAN AND DESIGN SPECIFICATIONS FOR THE DAM. WRITTEN RECORDS OF MAINTENANCE AND OBSERVATIONS SHOULD BE KEPT. OWNERS ARE TO MAKE VISUAL INSPECTION AT LEAST TWICE A YEAR, ONCE IN THE SUMMER AFTER MOWING, AND ONCE IN THE WINTER WHEN THE VEGETATION COVER IS DOMINANT. INSPECTIONS ARE TO BE MADE AFTER EXTREME RAINFALL EVENTS. OWNERS ARE ENCOURAGED TO HAVE AN INSPECTION BY A REGISTERED PROFESSIONAL ENGINEER AT LEAST ONCE EVERY 5 YEARS. THE OWNERS SHALL DO THE FOLLOWING MAINTENANCE:

- VEGETATION AND GRASS MOWING: PROPER VEGETATION IS REQUIRED ON EARTH DAMS. THE PROPER SELECTION OF GRASSES, SEEDING RATES, PLANTING DATES AND VEGETATION MAINTENANCE IS AVAILABLE IN EROSION AND SEDIMENT CONTROL PRACTICES FOR DEVELOPING AREAS, SOUTH CAROLINA. MOWING IS NECESSARY TO CONTROL THE ESTABLISHMENT OF WOODY GROWTH AND TO MAINTAIN THE VEGETATIVE COVER. THE EMBANKMENT AND THE AREA UPSTREAM AND DOWNSTREAM OF EMBANKMENT NEED TO BE MOVED. MOWING SHALL BE DONE AT LEAST THREE TIMES PER YEAR.
- TREES AND SHRUBS REMOVAL: TREES AND SHRUBS WILL NOT BE ALLOWED ON THE EMBANKMENT. TREES THAT HAVE GROWN ON THE EMBANKMENT SHALL BE REMOVED. STUMPS AND ALL WOODY MATERIALS MUST BE REMOVED TO ABOUT 30 INCHES BELOW THE GROUND SURFACES.
- TRASH REMOVAL: TRASH RACK UNITS SHOULD BE CHECKED PERIODICALLY AND ESPECIALLY AFTER STORM EVENTS. ACCUMULATED DEBRIS SHOULD BE REMOVED AND POTENTIALLY REWORKED IF NECESSARY. AN ANNUAL INSPECTION OF THE LAKE PERIMETER SHOULD BE DONE. MAINTENANCE OF WEEDS, FALLEN TREES, DEBRIS AND SEDIMENT SHOULD BE REMOVED. PERIODIC REMOVAL OF FLOATING DEBRIS TO PREVENT CLOGGING OF THE SPILLWAY SHOULD BE DONE.
- EROSION AND SLOPE PROTECTION: THE RATE OF EROSION IS DIRECTLY RELATED TO THE LACK OF VEGETATION. PROMPT TRENCHING OF ERODED AREAS ARE REQUIRED. VEGETATION SHOULD BE INSPECTED IN THE EARLY SPRING AND LATE SUMMER AND ANY TRENCH OR ERODED AREAS REPAIRED AND RESEDED.
- CREST OF DAM: CREST OF DAM SHOULD BE GRADED TO DIRECT ALL SURFACE DRAINAGE INTO THE IMPOUNDMENT. ALSO THE POND BOTTOM SHOULD BE REGRADED TO PROVIDE PROPER DRAINAGE TOWARDS THE OUTLET STRUCTURE.
- CONDUITS: ALL CONDUITS SHOULD BE INSPECTED THOROUGHLY ONCE A YEAR. INSPECT FOR IMPROPER ALIGNMENT (SAGGING), ELONGATION AND DISPLACEMENT AT JOINTS, CRACKS, LEAKS, SURFACE WEAR, LOSS OF PROTECTIVE COATINGS, CORROSION AND BLOCKAGE.
- OUTLET STRUCTURE: SURFACE SHOULD BE INSPECTED FOR CRACKING, SPALLING, DISPLACEMENT OR MOVEMENT AND DETERIORATION BY CRACKING, SLAB OR WALL MOVEMENT, LARGE AREAS OF EXPOSED REINFORCING STEEL AND SEVERE UNDERMINING. REQUIRE PROFESSIONAL ADVICE FOR REPAIR.
- OUTLET: EROSION OF THE SPILLWAY OUTLETS IS A COMMON MAINTENANCE PROBLEM. SERIOUS UNDERMINING, DISPLACEMENT OF PRESS AND DAM FAILURE CAN OCCUR. OFTEN THE OUTLETS ARE SUITABLE FOR NORMAL FLOW BUT NOT FOR EXTREME STORM FLOWS. PERIODICALLY AND ESPECIALLY AFTER STORM EVENTS THE SPILLWAY BASIN, FLUDGE POOL, OR RIPRAP SHOULD BE INSPECTED AND REPAIRED IF ANY DAMAGE OCCURS. COMPLETE FAILURE MAY HAPPEN WITHIN HOURS AND PROFESSIONAL ADVICE SHOULD BE OBTAINED IMMEDIATELY. TYPICAL METHODS USED TO CONTROL THE QUANTITY OF SEEPAGE ARE INSTALLATION OF AN UPSTREAM BARRIERS ON THE INSTALLATION OF UPSTREAM DAMS.
- SEEPAGE: SEEPAGE MUST BE CONTROLLED IN QUANTITY AND VELOCITY TO MINIMIZE DAMAGE TO THE DAM. REGULAR MONITORING TO DETECT WET AREAS, SPRING FLOW, PIPING AND TUBS ON THE DOWNSTREAM EMBANKMENT SHOULD BE DONE. EXCESSIVE SEEPAGE PRESSURE CAN THEREBY BE THE DOWNSTREAM SLOPE STABILITY. SEEPAGE FLOW, WHICH IS INDICATED BY SOIL, IS EVIDENCE OF "PIPING" AND "BOILS" WHEN THIS OCCURS COMPLETE FAILURE MAY HAPPEN WITHIN HOURS AND PROFESSIONAL ADVICE SHOULD BE OBTAINED IMMEDIATELY. TYPICAL METHODS USED TO CONTROL THE QUANTITY OF SEEPAGE ARE INSTALLATION OF AN UPSTREAM BARRIERS ON THE INSTALLATION OF UPSTREAM DAMS.
- SEDIMENT ACCUMULATION WILL OCCUR OVER TIME AND SHOULD BE REMOVED FROM THE POND TO MAINTAIN ADEQUATE VOLUME IN THE POND AND TO ENSURE PROPER FUNCTIONING OF THE OUTLET STRUCTURE. THE POND BOTTOM SHOULD BE REGRADED AS NEEDED TO PROVIDE PROPER SLOPE AND DRAINAGE TOWARDS THE OUTLET DISCHARGE POINT.
- REGULAR MONITORING TO DETECT WET AREAS, SPRING FLOW, PIPING AND TUBS ON THE DOWNSTREAM EMBANKMENT SHOULD BE DONE. EXCESSIVE SEEPAGE PRESSURE CAN THEREBY BE THE DOWNSTREAM SLOPE STABILITY. SEEPAGE FLOW, WHICH IS INDICATED BY SOIL, IS EVIDENCE OF "PIPING" AND "BOILS" WHEN THIS OCCURS COMPLETE FAILURE MAY HAPPEN WITHIN HOURS AND PROFESSIONAL ADVICE SHOULD BE OBTAINED IMMEDIATELY. TYPICAL METHODS USED TO CONTROL THE QUANTITY OF SEEPAGE ARE INSTALLATION OF AN UPSTREAM BARRIERS ON THE INSTALLATION OF UPSTREAM DAMS.

**CONSTRUCTION SEQUENCE**

- RECEIVE SPICES COVERAGE FROM DHC
- CLEARING AND GRUBBING FOR PERIMETER CONTROLS
- INSTALLATION OF PERIMETER CONTROLS IN THE AREA OF EACH WORKING CELL
- CONSTRUCTION OF PONDS 2 AND 3
- LANDFILL CONSTRUCTION IN CELL 1, INSTALL DIVERSION DITCHES AND ASSOCIATED EROSION CONTROL MEASURES WITH CELL 1
- CONSTRUCTION OF POND 1 AND PERIMETER DITCHES
- LANDFILL CONSTRUCTION IN CELLS 2-9 AND FINAL CLOSURE
- STABILIZATION SHOULD OCCUR ONCE CONSTRUCTION IS IN THE AREA IS COMPLETE AND NO FURTHER CONSTRUCTION IS PLANNED FOR 14 DAYS.
- CLEAN PONDS AND RESHAPE AS NECESSARY FOR PONDS TO HAVE THE CAPACITY AS SHOWN ON THE DESIGN PLANS.
- ONCE FINAL STABILIZATION HAS OCCURRED IN ALL AREAS, TEMPORARY SEDIMENT CONTROL MEASURES CAN BE REMOVED FROM THE SITE

**GRASSING SCHEDULE**

SEEDING SCHEDULE: SELECT THE TYPE OF SEEDING FROM THE TABLE BELOW. THE TOTAL POUNDS OF SEED PER ACRE IS THE SUM TOTAL SHOWN FOR ALL VARIETIES OF SEED OPPOSITE THE PLANTING DATES. PRIOR TO SEEDING, LIME (4-12-12) SHALL BE ADDED AT THE RATE OF 500 POUNDS PER ACRE OR OTHERWISE AS DETERMINED BY SOIL TEST.

PLANTING DATES	COMMON NAME OF SEED	lb / ACRE RATE
MARCH 1 TO AUGUST 14	COMMON BERMAUDA (HULLLED) KENTUCKY 31 FESCUE SERICEA LESPEDEZA (SCARIFIED)	20 50 50
AUGUST 15 TO MARCH 14	COMMON BERMAUDA (UNHULLLED) PENNSACOLA BAHIA ANNUAL RYEGRASS SERICEA LESPEDEZA (UNHULLLED, UNSCARIFIED) RESEEDING GRIMSON CLOVER RYE GRAIN	30 5 80 20 20

**EC 501**

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DESIGNED: JORDAN  
 CHECKED: JORDAN  
 DRAWN: BLACKMON  
 APPROVED: JORDAN

JOB NO. 12624-01  
 DATE JUNE 2013

EROSION CONTROL NOTES AND DETAILS

CIVIL

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 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF SOUTH CAROLINA

No. C00538  
 STATE OF AUTHORITY

